

```

_110 _120 _130 _140 _150 _160 _170 _180 _190
PRGDVAELQEAVEEDPLYAVFLPKGQRPAPTQVLEEDPSVEEEIEIAPLPFRNNVGEVEPQEDPIYQIGIPGHQEEMEEDPYASLDQVSQ
P.GD:: Q.. :: : : G : : : E : : E.E:: : : P:: : : E P : : : P : S
PSGDIQD-QSQDQEQEQQGA VGAVGNSPIERERVAAPESEDLYTVIIPKGKRTAAPILERKSPTPEPKVEDDEDLPPTLPPRTFS-
*20 *30 *40 *50 *60 *70 *80 *90 *100

_200 _210 _220 _230 _240 _250 _260 _270 _280
GAGADGIQENVPQEA GEELEEDIYQDPADFGLGQGGQQLDQAGYQGPSIGDRQLVNGPYGFNDGSYAMEFD-DVMWEGVRDAVIHDEEID
G.G D:: : :P : : : I QD:: : :G G .Q .Q : : : G R:: : GPY.F::G M:F: D. W :VR:AV: :.EI.
GEGYDDV-GVSMPTVSRGIYQPPIVQDSNLYSSIG-GVPQEAQYDAAARAGGPRKFLYGPYTFSSNGQEIMDFEFDTPWPDVRNAVLGNKEIK
*110 *120 *130 *140 *150 *160 *170 *180 *190

_290 _300 _310 _320 _330 _340 _350 _360 _370
PKFLVTGGLMRHICDKIVQSEGNLPEPDLEEIVSILKNDKEGISELINEPVQVDIPNPNVREGRNVMTLLHLAYAYNVDPRIINAIESVE
..L.T.G :R:I D:IV.S.G:L:E :EEI:I: :...I:E I:P::D: NNPV:::NVMTL:HL.YA.:VDPRI::A::..VE
EELTTSGPVRDIADRIVASKGDLSEDQVEEILDIIFMNESEIEAGISNPLHADVDNPNPVKGAKNVMTMLHLVYACDVPDPRIVKALGEVE
*200 *210 *220 *230 *240 *250 *260 *270 *280

_380 _390 _400 _410 _420 _430 _440 _450 _460
NSFGESGLDGYNIQADGNLPLHHA AKNCNGQVLDNCISKTNSNIINIRNFGNQSP LHV MVQNPGCSIGNIQVANECGMDFNLIDHPTGR
N. G: G : :YN: D::GNLPLHHA AKNC.G: L. C:KT:::I:: NF:NQSPLH::Q:P:CS: :I: .. :DF.L:D .G:
NDEGDLGANAYNVLDSEGNLPLHHA AKNCTGDKLKCMEKTKTDFIDTANFANQSP LHIITQKPDCSVLDIEEFTSRNLDFGLVD-GDGK
*290 *300 *310 *320 *330 *340 *350 *360 *370

_470 _480 _490 _500 _510 _520 _530 _540 _550
MPIHYAAEAAASSEVL SVIRNTKAESPQASAVNTQDVNGRTPLHCAAISGNSK-GLSVMLLQNGVDCAVRDKNYSTPLHYAVAGNDIKSIK
P:H.A.E : : :L. V: :K..S .. VN..D G.T H.A. : N:..L ML :G.D .VRL .:P:H A :... :...
NPLHHA VEHLPPVILKGVMDHVKNSSSEFQDLVNDPDPYFGNTIAHYAVKNKNADLTLFNMLKASGADLNVRNVVGRAPIHVASSNGKANAVS
*380 *390 *400 *410 *420 *430 *440 *450 *460

```

Fig. 1A

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_560 _570 _580 _590 _600 _610 _620 _630 _640
NL--CSVKGRVQGVKSSAA-SLLCEDLQGDTPPLHIAACKVEGTFKAFETVRQSIKKHHGKQVLQELLIREGSGPRLNVSGFGSQSILSGVSGDLY
.L C::: . Q:V::: : F: T L : : : : : I:: : : : N:.G : : : : : Y
GLVSCGIDVNSQDVNGDTPPLHIAVEGGSMETVLAVLNQRGADVSVQNNNDGVTPLMSAAKYGDIGVIKALGSAKPNIKG--EDTVAKSLLLMEDY
*470 *480 *490 *500 *510 *520 *530 *540 *550

_650 _660 _670 _680 _690 _700 _710 _720 _730
GYLNSQNFPTSPVHAAVKANNLQLLNLFKKSPDI--LRQSSPNGFNPVHMAALFADVKTIVKLIENASGEEVNAQSDSTLTPHLACIRGD
::: F V : : : : : .K..D: :R.: : : : :L . .. L NA. : . : : :P : : : :
KGFTPLHF----VAGGSRDTRFRVVRKNYEKCHDLATIRAALMQDRSGGELVNLGDFESENILGSPNAKFLQHIQSANFGFSPARRGIVSSN
*560 *570 *580 *590 *600 *610 *620 *630 *640

_740 _750 _760 _770 _780 _790 _800 _810 _820
GSIIKRMVEHESVNVNQTMGPDQNTVLQYAINRGNHSLIKRLL-SHPSIDLVNRNADGKTSAHSAMEKGD LKTVKALCNAGADVNTVDNNG
:::K : : : : : N: Q A G::: :K.L S : DLN : : : : T: : A :GD .V::L .. : : : : G
HNVMKDILNFVGDSLHLPSERGYNA-MQVAALFGDKEAVKMLAKSAKPSDLNFKTSATPTPLNLACLRGDNEVVVRGLVGQ-HGIDINQRMG
*650 *660 *670 *680 *690 *700 *710 *720 *730

_830 _840 _850 _860 _870 _880 _890 _900 _910
RSVISSAIYSGQNEKKLVPIVKLLLLNSGAKIG-SQEDKNILLQKCINSGYNKLLDLLLEQGERIN-VEGKA-SPLVSAVVSG-----NTHAVK
.. : Y: : : : : : K:L :G::: : : L: : :G K::: LL..G. :N : : : : S L SA:V:G V:
SDKNTVLHYAISKGDSFL-VQKILAHTGVDVNCENNLGQTPLHLAVEGGDPKIVSSLLKAGAVVNRLLDDNGRSVLSSAIVPGRKEKGVLGIVN
*740 *750 *760 *770 *780 *790 *800 *810 *820

_920 _930
KLVASGGDINQKVSDENSIHYKNSL (SEQ ID NO: 1)
KL:.G:DIN : : : : : I : : : .L
KLDRGADIN--LDGDHNILFDQCL (SEQ ID NO: 2)
*830 *840

```

Fig. 1B

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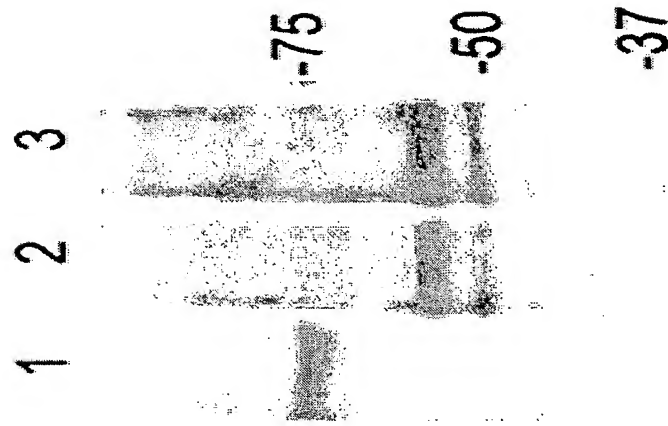


Fig. 2B

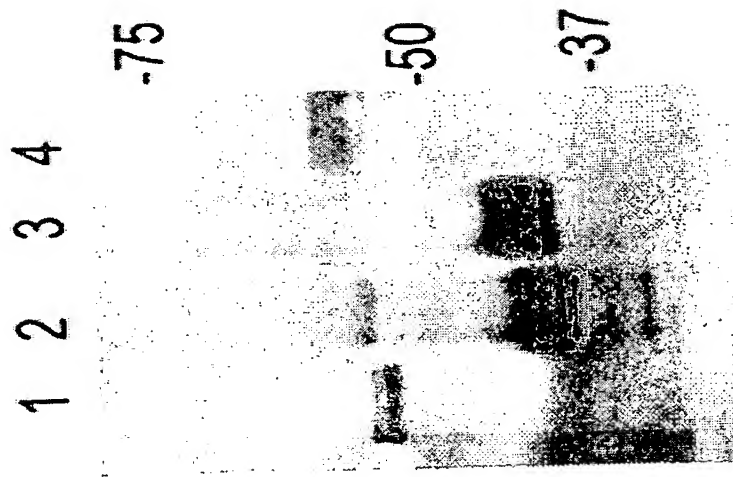


Fig. 2A

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A            1    2    3

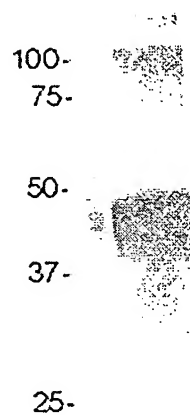


Fig. 3A

B    1    2    3    4    5

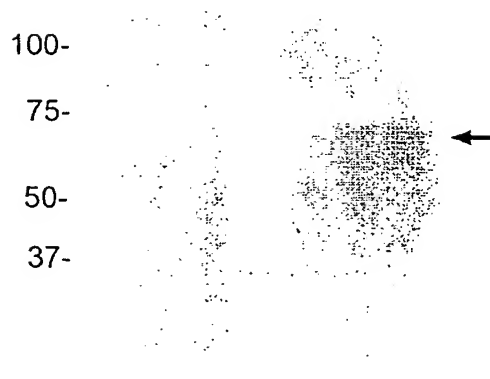


Fig. 3B

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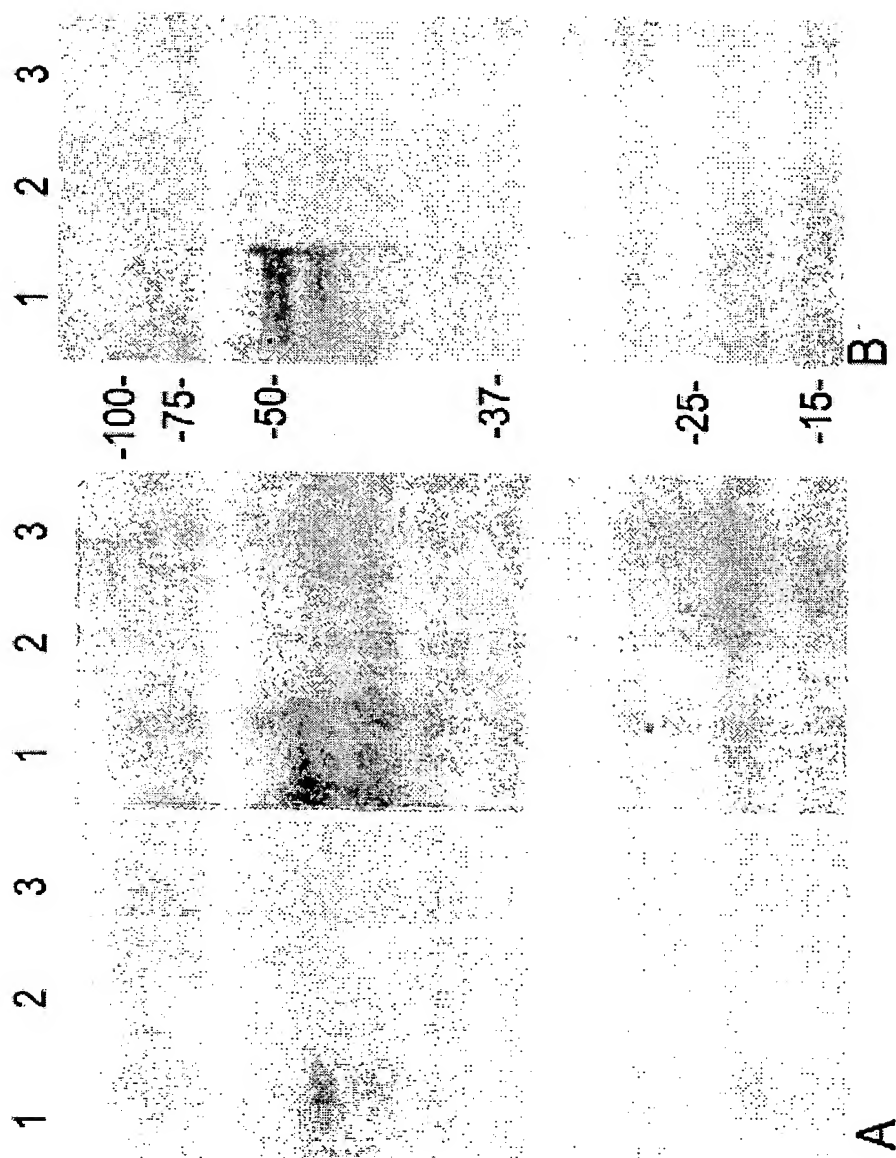


Fig. 4A

Fig. 4B

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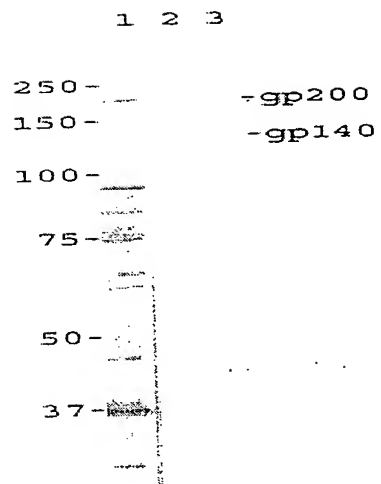


Fig. 5